CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

***Agency** : **Technical Manager (West),** KRIDL, Bangalore.

***Name of the work** : Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/58/2016-17 Dated: 02.09.2016

***Sample ID** : RCC Drain Bed Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	04.10.2016	8.347	512.4	22.77
2	06.09.2016	04.10.2016	8.156	485.6	21.58
3	06.09.2016	04.10.2016	8.294	496.8	22.08

Note:

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **Technical Manager (West),** KRIDL, Bangalore.

*Name of the work : Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/58/2016-17 Dated: 02.09.2016

*Sample ID : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 15.09.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.367	371.5	16.51
2	08.09.2016	15.09.2016	8.254	366.2	16.28
3	08.09.2016	15.09.2016	8.196	345.8	15.37

Note:

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T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **Technical Manager (West),** KRIDL, Bangalore.

*Name of the work : Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/58/2016-17 Dated: 02.09.2016

*Sample ID : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.257	496.3	22.06
2	08.09.2016	06.10.2016	8.369	516.7	22.96
3	08.09.2016	06.10.2016	8.475	521.4	23.17

Note:

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **Technical Manager (West),** KRIDL, Bangalore.

*Name of the work : Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/58/2016-17 Dated: 02.09.2016

*Sample ID : RCC Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.296	347.2	15.43
2	10.09.2016	17.09.2016	8.384	354.2	15.74
3	10.09.2016	17.09.2016	8.472	369.8	16.44

Note:

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T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **Technical Manager (West),** KRIDL, Bangalore.

*Name of the work : Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/58/2016-17 Dated: 02.09.2016

*Sample ID : RCC Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.157	504.8	22.44
2	10.09.2016	08.10.2016	8.263	516.2	22.94
3	10.09.2016	08.10.2016	8.395	528.5	23.49

Note:

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/Pre Cast Slab/2016-17 13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of RCC Drains near Aswathkatte surrounding area roads and 4th A, B, C, D, E cross all sides Shettyhalli Sub Division in Ward No.13, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/58/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample Received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.403	2503.00	1.64	0.960	31.95	16.27	17.57	16.87	21.09
2	50.00	83.00	0.409	2509.66	1.66	0.965	32.65	16.63	17.96	17.33	21.66
3	50.00	84.00	0.416	2522.23	1.68	0.970	33.00	16.81	18.15	17.61	22.01

* Information is furnished by the Customer/Representative

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Note:

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